



Ø BEAT



COLO. SPRINGS,
COLORADO

November 1980

Elementary!! ...Borst Wins

WDØGTA WINS TRANSMITTER HUNT!

Les (WDØGTA) and capable crew took the honors in this year's second hunt. The hidden transmitter was sniffed out by Les in both the lowest mileage and shortest time.

Also participating were Dave WBØSDW and Al ADØZ; Smitty WBØLTV and Karl K4DQ; Greg KAØFOZ and Delaney (Greg's harmonic); and Ray AAØL, Jim NØAVY, Charlene WBØYOB and Jim KØUNS. Some teams also had their better halves present for moral support.

The weather was perfect for the hunt. The transmitter was located in Bear Creek Canyon, SW of the Solar Trails Center. The area was rich in all the colors of "fall in Colorado." The last hunter arrived with perfect timing, just as the sun dropped below the canyon walls and just in time for the group to head for pizza.

For those who missed it, you missed a great day. Have your equipment ready for the next hunt as Les has promised us a great hunt. Watch for the date in Ø Beat.

73 Doug WBØMHP



NOVEMBER IS "2 METER" NITE

Bring your two meter radios with you. We will have test equipment set up to measure power, frequency, sensitivity for 20 dB quieting, spurious emissions and deviation. 12 volts will be provided at the test stations but if your rig uses some oddball voltage or draws more than 3 amps at 12V you will have to supply your own power. The maximum RF power output we can handle is 20 watts.

Listed in the test setup drawing is the type of connectors we will be prepared to match so if your rig uses a different connector, you will have to provide the adapter to one of the others.



P.P.R.A.A. DIRECTORS

PRESIDENT	Dave Vierling NØDV 2511 N. Tejon 80907	473-0293
V. PRESIDENT	*Les Borst WDØGTA 2542 E. Bijou 80909	634-3995
SECRETARY	*Bill Allen NØATE 1341 Doyle Pl. 80915	597-3324
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Board Member	Don Lohse KBØKQ 1410 E. LaSalle 80907	635-7469
Board Member	Charleen Colvin WBØYOB 4610 Topaz 80918	598-7704
Board Member	*Al Bailey ADØZ 2715 Alteza Ln. 80917	597-8514

(* Two-year board terms began October 1980)

ZERO BEAT is published monthly in the interest of the members of the Pikes Peak Radio Amateur Association, Inc., Colorado Springs, Colorado. Permission is given to reprint articles or excerpts provided credit is given. Deadline for submission of articles is the 21st of the month. Classifieds accepted anytime.

The Pikes Peak Radio Amateur Association meets on the second Wednesday of each month at Sabin Jr. High School, 3605 N. Carefree Circle at 7:30 p.m. and all amateurs and interested parties are invited to attend.

Editor: Don Lohse KBØKQ, 1410 E. LaSalle, Colorado Springs, CO 80907 635-7469

Brain Teaser

Joe Ham is twice as old as his son, Ham Jr. When Jr. was half his present age, his QM put up a tower so he could work the world. Mrs. Ham was 18 when Jr. was born. Three years after Joe put up the tower, his XYL planted a tree that was then 18 inches tall. Mrs. Ham's age is $\frac{3}{4}$ of Joe's age. The tree has grown at a rate of 18 inches each year and is now $\frac{1}{4}$ as high as the tower. Joe wants to know how old he will be when the tree grows to the height of his tower and fouds up his beam.

How old is Joe? How old is his XYL? How old is Joe Jr., the tower and tree? How tall is the tower? How old will Joe be when the tree gets to the top of the tower? (answer next month) (Courtesy October 1980 Auto-Call)

TECH TICKLERS

Transmitter puts out 10 watts. Second harmonic measures -34 dB on spectrum analyzer. Question: What is the second harmonic power level?

Receiver sensitivity measures 0.71 microvolts. Receiver input impedance is 50 ohms.

Question: What is the receiver sensitivity in dBm?

Transmitter is set to 146.52 MHz. The frequency reads 146.5235 MHz on a counter (assume the counter has no error). The crystal is a 12 MHz type with a tolerance of 0.005%.

Question: Is the crystal within its tolerance?

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FOR SALE: Collins 75S1 Receiver \$250, Heath SB620 scanner scope \$100, Heath QF-1 Q Multiplier \$10, Tektronix 321 battery powered miniscope \$75, Heath DMM \$50, Cushcraft 1.0 elm-144 MHz OSCAR antenna \$40, Spectrum 48 elm-432 MHz OSCAR antenna \$50. Call Larry 596-8883 after 6 PM.

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OCTOBER 1980 MEETING MINUTES

The October meeting was called to order by President Don Lohse at 7:30 P.M., October 8, 1980 at Sabin Jr. High School. The 38 members and guests present introduced themselves and briefly described their interests.

The Treasurer's report from Dave Riese told us that there was \$303.55 in the club treasury as of October 6, 1980. It was also reported that there is a zero balance in the Servcom fund; the Servcom funds having been spent on the weather bureau station.

In the old business department — Don Lohse explained the options regarding the Christmas party. It was moved and seconded and voted to have the party at the Iron Springs Chateau. It will be Saturday, December 6, 1980 at 6:00 P.M. The price is \$12.50 per person for dinner and show. It is hoped that members and guests will stay for eyeball QSO's, dancing and merriment.

In the new business department — Doug Moloney, WB0MHP, announced that there will be a transmitter hunt October 19th. Show up time is 12:30 P.M. The hunt will start sharply at 1:00 P.M. from Radio Shack at Templeton Gap Road and Academy Blvd. There will be a beginners class and an experienced class with two prizes for each class. Bring your portable beams and attenuators and join the fun!

Dave Vierling, N0DV, expressed the thanks of the C.M.T.R.A. Enduro Club for our clubs' help with the Pikes Peak Enduro. Approximately 16 amateurs helped. Dave further responded that there was only one broken bone in the whole event, (collar bone).

Tom Tobiason, N0BZ, announced that Coe, W0FPT can provide club members with nifty magnetic signs with your call or whatever for a F.B. price.

The November program will be a two meter clinic. Equipment will be on hand to check frequency deviation, power, sensitivity, etc. Bring your twice meter rig and check him out.

FOR SALE: National NCX3 transceiver. 3 bands, 80, 40, 20. Good condition. \$275 offer. Mike Hancock WB0WUD. 632-6212.

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The December meeting will be Home Brew Night. Sooo, better start getting your favorite project (A) finished, (B) dusted off, (C) working or (D) all of the above and bring it along. The club will award a couple of different prizes for those projects voted best in their class.

It was announced that the Board Meeting date will, in the future be the first Monday night following the regular club meeting.

N0DV says he will soon have some RG8X coax available at a good price. He wants to know how many people want to buy how much.

Chuck, W0RNT, announced that due to a mixup, the CCARC callbooks will be a month late.

Elections were held this month for new club officers and Dave Vierling is our new President. Les Borst will back him up as Vice President. Bill Allen is Secretary. Doug Moloney will keep track of the coins as Treasurer. Our new board member is Al Bailey. Congrats to the new officers, and a very big thanks to the old officers for their fine service to the club!

Oak was this month's recipient of the coveted Hammy Award. He was thanked much for the use of his cabin for club picnics but mainly for his fine input to the club and for being an F.B. amateur.

Chuck, RNT, announced that he is in touch with a man in Denver who has a new antenna design. Hopefully he will come down soon and give us a demo. Watch out Smitty!

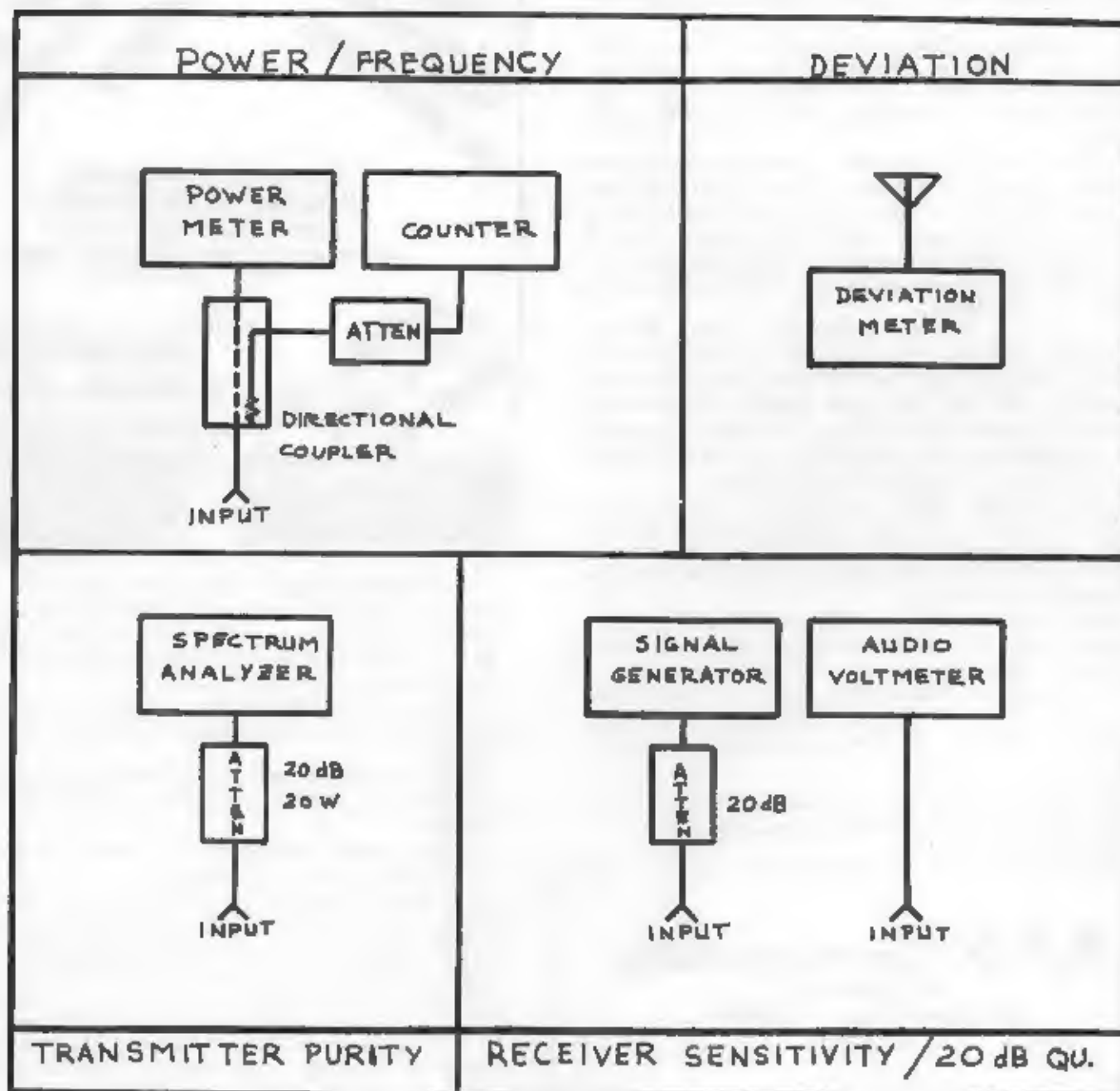
Finally, Don Lohse asked for anyone who has an article for ZERO BEAT to please come forth with it. Please submit it early though — Don seems to need sleep too.

Along those lines, Ray U., AA0L says he would like someone to give a program on Toroids (what ever kinda disease that is).

Respectfully submitted,
Bill N0ATE

FOR SALE: Hustler HF Mobile Ant. MO2 with 10, 15, 20, 40 meter resonators. MFJ Deluxe Versa Tuner II Model 949. Watt Meter — SWR Meter, Dummy Load, 2 coax connectors, Balun — Radom Wire. Best Offer, Frank, N0BOV, 472-6150.

— Two Meter Test Set Ups —



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OCTOBER BOARD MINUTES

The board met October 6, 1980 at the home of Frank Freiler, WBØPAJ, at 411 Lakewood at 7:30 P.M. Those present were Don, KBØKQ; Dave, NØDV; David, WBØSDW; Ray, AAØL; Frank, WBØPAJ; Doug, WBØMHP; Lorna, WDØBTF; Dick, WBØPNX; and Charleen, WBØYOB.

The first item discussed was programs for future meetings. The November meeting will be a 2 meter clinic, December meeting will be Home Brew Night or "Show and Tell", and the October meeting will be election night. Also the categories and prizes for home brew night were discussed.

Dave, NØDV, said the Colorado Motorcycle Trail Riders Association sent their thanks to the club members who helped on the Pikes Peak Enduro. The party for riders and workers will be held October 11 at 7:30 P.M. at the Knolls Condominiums Clubhouse.

It was suggested that we have a meeting that would be a project night such as an antenna making or someone show how to make something and those present make it.

Dave Riese reported zero balance in SERVCOM and this would no longer be carried on the club's books. Also \$300 had been paid to Chuck WØRNT for the CCRC repeater directories.

Transmitter Hunt will be Sunday, October 19. There will be a beginner and an expert class. It was suggested these be held every 2 or 3 months with the winner put on the next one. Christmas Party was discussed and the choice would be between the Castaways and The Iron Springs Chateau. These will be voted on at the next club meeting.

It was decided to drop the Santa Net as few children are in the hospital at Christmas and the lack of interest.

The future board meetings will be held the Monday night following the club meeting so current board minutes can be published in Ø Beat. The next meeting will be October 13, 1980 at Don Lohse's, KBØKQ, at 7:30 P.M. at 1410 E. LaSalle.

The board selected a slate of officers to be presented at the next club meeting, October 8. They are President: Dave Vierling, NØDV; Vice President: Les Borst, WDØGTA; Secretary: Bill Allen, NØATE; Treasurer: Doug Moloney, WBØMHP; Board members: Don Lohse, KBØKQ; Ray Uberecken, AAØL; and Charleen Colvin, WBØYOB.

Respectfully Submitted,
Charleen, WBØYOB

Typesetting courtesy Letter Setters

MORE BOARD MINUTES! (Second October Meeting)

The board met October 13, 1980 at 7:30 P.M. at Don Lohse's, KBØKQ at 1410 E. LaSalle. Those present were Dave, NØDV; Les, WDØGTA; Bill, NØATE; Doug, WBØMHP; Don, KBØKQ; Joyce, KAØGJN; Al, ADØZ; Ray, AAØL; and Charleen, WBØYOB.

Don, KBØKQ, was selected to be chairman of the Board.

Les Borst, WDØGTA, asked for a clarification of his duties and responsibilities as vice president. He also volunteered to take care of having a plaque which reads "Property of PPRAA, Presented by CMTRA, Sept. 1978" engraved and placed on the club Icom 2 meter set.

Committees for the ensuing year were established:

Public Service: Doug, WBØMHP; Mike, KØTER; Warren, WBØSJR; and Bob, KØDJ.

Education: Al, ADØZ; Don, KBØKQ; and Jim, NØAVY.

Ø Beat: Don, KBØKQ; Dave, KØHOA; Jim, NØAVY and anyone else that would like to help.

Interference: Don, KBØKQ; Bill, NØATE; and with Ray, AAØL, and Doug, WBØMHP, as advisors.

Membership: Doug, WBØMHP; and Dave, WBØTAQ.

Publicity: ask for volunteers at the next club meeting.

A need for radio art work for Ø Beat was expressed.

The programs for the next four months were established and will soon be confirmed.

The Colorado Motorcycle Trail Riders Association presented the club a check for \$200 to be used on equipment as a thank you for help with the Pikes Peak Enduro. The board decided to use the money toward coax and materials for new antennas for the club. Antennas are needed for field day, emergency use, and other club functions.

A proposal to raise the club dues will be presented at the next club meeting, November 12.

The following items were discussed: club equipment, calendar of events, interest questionnaire, swap fest, and club station.

The next board meeting will be held November 17 at 7:30 P.M. at Colvin's, 4610 Topaz Drive. Remember board meetings are open to club members.

Charleen, WBØYOB

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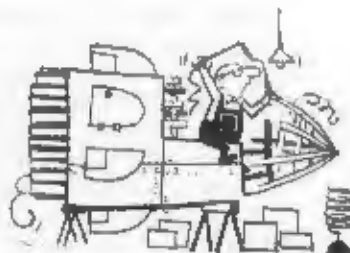
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MEETING NOTICE

The November meeting of the Pikes Peak Radio Amateur Association will be held on November 12, 1980 at Sabin Jr. High at 7:30 p.m. The program will be a 2 meter clinic to check the performance of any radio. All members and any interested persons are invited to attend.

DON'T FORGET!!
HOMEBREW NIGHT
DECEMBER MEETING
DECEMBER 10th



Ø BEAT



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Don Lohse KBØKQ
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